



**POSITION SPECIFICATION
FOR THE ROLE OF
SENIOR DESIGN ENGINEER
WITH
APPLIDYNE AUSTRALIA PTY LTD**

THE ORGANISATION

With a staff of around 10 people and centrally located in Adelaide's western suburbs, Applidyne Australia Pty Ltd is a successful team of primarily Research, Design and Development Engineers, headed by the founder and Managing Director, Mr Paul van de Loo.

Since 1993, Applidyne has provided a seamless multi-disciplinary approach to product development and design. The company's personnel have current real-world experience and knowledge and they make use of the latest technologies to supplement their strong engineering base. Applidyne can take your ideas or requirements from paper to a successful product, and assist you with every step in between. The company not only offers its customers a rigorous, analytical engineering approach to design problems to ensure exceptional performance, but it also brings to the table a unique innovative approach that has resulted in several patents for Applidyne clients.

Applidyne has developed dozens of products and has helped many companies solve their engineering problems in a cost-effective and timely manner. The company has a long track record in product development, general mechanical design analysis, and the development of and integration of computerised control systems with mechanical and electrical hardware.

Applidyne specialises in the design and development of mechanisms and electro-mechanical systems. The company's strong electronics design capability, coupled with its mechanical expertise allows it to tackle the design of complex products and systems in-house. In particular, Applidyne engineers can assist clients with:

- Product Design and Prototyping
- Manufacturing Support
- Systems Design
- Research and Development
- Project Management
- Analysis and Computer Modelling (Including FEA)
- Control Systems
- Product and Machinery Testing
- Technical Investigation of Accidents and Failures

Applidyne product designers are skilled in all aspects of product design, including thermoplastics and design for injection moulding, electronic circuit design and PCB layout. The company uses Pro/Engineer and Altium CAD software to optimise the design, prototyping and tooling process and employs mechanical, electronic, software and aeronautical engineers and technicians. Applidyne prototyping is performed by rapid prototyping techniques, or if this is not appropriate, by a local, interstate and international sub-contractors.

Applidyne provides assistance with getting new product designs into manufacture, both in Australia and in low cost countries. The company has on-the-ground support in Taiwan and China that can organise tooling and manufacturing contracts and ensure quality parts right on schedule. With an extensive network of manufacturers to choose from, Applidyne can handle most requirements including sintering, pressing, injection moulding, die casting, investment casting, NC machining, PCBs or loaded circuit boards and many others processes. The company has an unrivalled capability to provide a seamless product development service, combining Western design creativity with low cost manufacturing.

An opportunity has arisen for a suitably qualified and experienced person to join the company in the capacity of Senior Design Engineer.

JOB SPECIFICATION

POSITION TITLE: Senior Design Engineer

REPORTS TO: Engineering Manager

REASON FOR VACANCY:

Growth of company

OVERALL RESPONSIBILITY:

Achievement of high standards of engineering design to achieve client and company technical and commercial objectives. Manage projects and junior design personnel.

SPECIFIC RESPONSIBILITIES:

- Management of projects with small teams to the required level of quality, timing and budget, and regular reporting of progress to the client. This includes planning, estimating and managing all technical stages of projects, from quoting and concept generation through to testing, tooling and commissioning.
- Performance of system requirement reviews and generation of system specifications.
- Management of the design process on projects, including performance of design reviews.
- Direct hands-on design and drawing preparation using CAD.
- High level engineering analysis and design activities to support the design process.
- Research and testing to support the design and development process.
- Preparation of technical reports, particularly for consulting projects such as design reviews, investigations of failures, stress analysis and concept design and feasibility studies.
- Providing assistance to the Engineering Manager with the development and implementation of internal systems, including file, documentation, and drawing management, QA system, project reporting, etc.
- Providing assistance to the Engineering Manager with the development and maintenance of internal design tools including FEA, CAD and other design and analysis software.
- Mentoring of junior engineering personnel.
- Promoting the company's capabilities to potential and current clients.

PERSON SPECIFICATION

EDUCATION: It is anticipated that the appointee will have a degree qualification in Mechanical or Electronic Engineering, or a related discipline. Post-graduate qualifications or Chartered status would be well regarded.

GENERAL EXPERIENCE:

It is anticipated that the selected candidate will have extensive experience in engineering R&D, involving detailed technical design and leadership of small teams.

SPECIFIC EXPERIENCE & SKILL REQUIREMENTS:

- At least 5 years experience in an R&D role, involving hands-on, technical design and management responsibilities.
- Proven ability to effectively handle sophisticated and complex design tasks.
- Proven track record of successfully building up a consulting business through e.g. an established network of clients, developing systems to increase efficiency etc.
- Demonstrated technical expertise, either as depth in a specific area relevant to Applidyne's business, or a wide breadth of knowledge across a number of areas.
- A good understanding of GTOL principles.
- A good understanding of mechatronic principles.
- A good understanding of how a commercially based design and development company operates.
- An understanding of Quality Assurance principles.
- High level of computer literacy.
- Good analytical skills.
- Practical "hands on" approach.
- An excellent knowledge of a broad range of manufacturing technologies and processes.

PERSONAL QUALITIES:

- Excellent verbal and written communication skills.
- Proven team leader and ability to relate well to people at all levels.
- Ambition coupled with initiative and strong personal drive.
- Demonstrated enthusiasm and energy to achieve positive outcomes.
- Excellent personal organisation and time management skills.

EMPLOYMENT CONDITIONS

REMUNERATION PACKAGE:

Applidyne's policy is to provide remuneration at above-market rates for people with above average abilities and performance.

Salary reviews will be undertaken at least annually and will be based upon performance.

SUPERANNUATION:

Compulsory 9.5% company superannuation contributions will apply.

ANNUAL LEAVE:

Four (4) weeks annual leave per annum.

WORKING HOURS:

The appointee will be a responsible, mature and energetic person who is prepared to contribute the hours required for a position of this seniority.